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# Buffer Overflow Exploitation [Theory] ((EXCLUSIVE))

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## Buffer Overflow Exploitation [Theory]

Buffer Overflow Exploitation [Real-World Examples] Buffer Overflow Exploitation [Blue Pill] The terms "buffer overflow" and "buffer overflow exploitation" describe the method by which a buffer overflow vulnerability is abused. Buffer overflow actually refers to an attack that occurs when a program invokes a function whose parameters are larger than the available space in the buffer in which it is stored. A buffer overflow attack exploits a programming vulnerability that allows the attacker to overwrite the bounds of a buffer. The term "buffer" refers to a memory block. This memory block is used to store a defined amount of data and serves as a type of data container. Buffer overflow attacks often occur in C programs that cannot check the bounds of memory because they are given to a buffer as a parameter. There are two types of buffer overflow attacks: stack-based buffer overflow and heap-based buffer overflow. A buffer overflow attack is a type of software attack in which the attacker exploits a programming flaw and executes arbitrary code. Heap buffer overflows occur when the attacker attempts to overwrite the contents of a block of memory (i.e. the heap). In contrast, stack buffer overflow occurs when the attacker attempts to overwrite the contents of a stack-based buffer. The attacker overflows the buffer at the stack's end; the buffer overflowed in a context where it is later referenced. When the buffer is referenced, the attacker's shellcode can place itself in the position of the references that are made to it. Buffer overflow exploits use a buffer overflow vulnerability to exploit a single, predefined heap buffer. The exploit works in the following way: As the operating system processes a packet, it passes it through an application program that looks something like this: What is a buffer overflow vulnerability? A buffer overflow vulnerability is a security flaw in software programs that allow malicious users or attackers to gain control of a computer system and compromise it. This vulnerability can take many forms. One type of buffer overflow vulnerability occurs when the attacker has access to the following kind of buffer: In a buffer overflow, an attacker can specify a value that is too large for the defined size of the buffer. This type of vulnerability occurs when a program processes input from a user and does not limit the size of the input string that is allowed to be entered by the user. While the buffer is fixed in size, the attacker can specify values that are too large to fill up the buffer and overrun it. 6d1f23a050

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